

Title (en)

A PROCESS FOR PRODUCING CORN GRAIN BY USING THREE TYPES OF GENETIC EFFECT

Title (de)

VERFAHREN ZUR HERSTELLUNG VON MAISKÖRNERN MITTELS DREI ARTEN GENETISCHER EFFEKTE

Title (fr)

PROCEDE DE PRODUCTION DE MAIS AU MOYEN DE TROIS TYPES D'EFFETS GENETIQUES

Publication

EP 1090544 A1 20010411 (EN)

Application

EP 99919026 A 19990506

Priority

- CN 9900065 W 19990506
- CN 98101902 A 19980512

Abstract (en)

A process for producing high yield corn with enhanced grain quality traits is disclosed, whereby the seeds of the interlinear hybrid corn with cytoplasm male sterility and the seeds of the normal pollinator hybrid corn having significant economic traits such as high oil or high protein are mixedly planted in a ratio of 4-9:1. In this process, the effect of cytoplasm male sterility on increasement of yield of the grain is fully used, the effect of mere planting of the interlinear hybrid on the degeneration of the grain is successfully avoided and the output-increasing effect gained from heterosis caused by re-crossing interlinear hybrid is utilized. And, characters of father hybrid corn, including high oil and other economic characters controlled by major dominant gene or semi-dominant gene, have been expressed by grains of mother interlinear hybrid corn through metaxenia.

IPC 1-7

A01G 7/00; **A01H 3/00**; **A01H 5/10**

IPC 8 full level

A01H 1/04 (2006.01)

CPC (source: EP US)

A01H 6/4684 (2018.04 - EP US); **Y02A 40/10** (2017.12 - EP)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9957960 A1 19991118; AU 3697599 A 19991129; BR 9911782 A 20020716; CA 2331651 A1 19991118; CN 1110243 C 20030604; CN 1194090 A 19980930; EP 1090544 A1 20010411; EP 1090544 A4 20021127; MX PA00011158 A 20030422

DOCDB simple family (application)

CN 9900065 W 19990506; AU 3697599 A 19990506; BR 9911782 A 19990508; CA 2331651 A 19990506; CN 98101902 A 19980512; EP 99919026 A 19990506; MX PA00011158 A 19990506